METHOD AND APPARATUS FOR CONVERTING UTTERANCE REPRESENTATIONS INTO ACTIONS IN A CONVERSATIONAL SYSTEM

ABSTRACT OF THE DISCLOSURE

A conversation manager processes a spoken utterance from a user of a 5 computer that is directed to an application program hosted on the computer. The conversation manager includes a reasoning facility which accesses goal-directed rules stored in a rules base (e.g., database). The reasoning facility also has access to a conversational record that includes a record of previous utterances and a semantic analysis for each utterance. The reasoning facility processes a representation of the 10 utterance by using the goal-directed rules. The reasoning facility uses means-end analysis to determine the proper rules to execute, and thus the script calls to make to achieve the goal of processing the utterance. While processing the utterance, the reasoning facility attempts to resolve any ambiguities in the representation of the utterance and to fill in any missing information that is needed to achieve its goal. The 15 reasoning facility then generates a response to the utterance, which can be a question to the user or a command to the application program based on the utterance.